**Project RPG Test Plan**

# Purpose:

The purpose of this plan is to detail the testing that will be required for the Test Case Documents and Testing and Validation Phase of Project RPG.

# Test Plan:

## Functionality Testing

The functionality testing will validate the installation and execution of the project build. It intends to validate compatibility with the operating systems listed in the project scope, as well as various models of computers. The Functionality Test will also validate the program operates as a useable software package from start to finish.

## Performance and Load Testing

Various performance and load tests will be performed as part of the Test and Validation phase, including frame rate analysis, Load Times, and Profiling within the editor.

## Useability Testing: Phase 1

A determined number of volunteer testers will install and play the game, go through the test case, provide generic user feedback, and answer questions regarding objective requirements.

## Useability Testing: Phase 2 (if applicable)

After user testing provides feedback, changes will be implemented into the code, and the player will retest to validate that the game experience has improved.

## Bug Reporting and Resolution

A Spreadsheet for documenting software bugs will be created, and user feedback will feed into the bug reporting. The spreadsheet will include ratings, and resolution updates.

## Regression Testing (if applicable)

Following the actions of test plans 2.1 through 2.5, Regression testing will be repeated for 2.2 (Performance and Load) and 2.4 (Useability Testing Phase 2) to ensure any changes did not break the previously functioning core gameplay

## Report Writing

Each Test case will receive a testing report component summarizing the testing details, results, and recommendations if applicable.

## Validation Report

One final validation report will be generated that summarizes the results of the testing plan, as well as check the validation against the project proposal's initial requirements.